

Davison County, South Dakota  
Nontechnical Soil Descriptions

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Aa - Chaska Loam

Aa CHASKA LOAM - The Chaska series consists of very deep, somewhat poorly drained soils that formed in recent calcareous loamy alluvium on flood plains. These soils have moderate permeability. This soil has high available water capacity and moderate organic matter content. Flooding is FREQ.

BaA - Beadle Loam, 0 To 2 Percent Slopes

BaA BEADLE LOAM, 0 TO 2 PERCENT SLOPES - The Beadle series consists of deep, well drained soils formed in glacial till. These upland soils have moderately slow or slow permeability. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

BeE - Betts And Ethan Loams, 21 To 40 Percent Slopes

BeE BETTS AND ETHAN LOAMS, 21 TO 40 PERCENT SLOPES - The Betts series consists of very deep, well drained soils formed in glacial till. Permeability is moderate in the upper part and moderately slow in the underlying glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
BeE BETTS AND ETHAN LOAMS, 21 TO 40 PERCENT SLOPES - The Ethan series consists of deep, well drained soils formed in glacial till. They have moderate permeability in the solum and moderately slow permeability in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

BhD - Betts-Ethan Loams, 6 To 21 Percent Slopes

BhD BETTS-ETHAN LOAMS, 6 TO 21 PERCENT SLOPES - The Ethan series consists of deep, well drained soils formed in glacial till. They have moderate permeability in the solum and moderately slow permeability in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
BhD BETTS-ETHAN LOAMS, 6 TO 21 PERCENT SLOPES - The Betts series consists of very deep, well drained soils formed in glacial till. Permeability is moderate in the upper part and moderately slow in the underlying glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

BlE - Betts-Gavins Complex, 15 To 40 Percent Slopes

BlE BETTS-GAVINS COMPLEX, 15 TO 40 PERCENT SLOPES - The Betts series consists of very deep, well drained soils formed in glacial till. Permeability is moderate in the upper part and moderately slow in the underlying glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
BlE BETTS-GAVINS COMPLEX, 15 TO 40 PERCENT SLOPES - The Gavins series consists of well drained and somewhat excessively drained soils formed in sediments weathered from soft siltstone on uplands. These soils have moderate permeability above the bedrock. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

BmA - Blendon Sandy Loam, 0 To 3 Percent Slopes

BmA BLENDON SANDY LOAM, 0 TO 3 PERCENT SLOPES - The Blendon series consists of deep, well drained soils formed in sandy glacial sediments or eolian sediments on terraces and alluvial fans. Permeability is moderate or moderately rapid through the solum and moderately rapid or rapid in the underlying material. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

BnA - Blendon-Firesteel Complex, 0 To 3 Percent Slopes

BnA BLENDON-FIRESTEEL COMPLEX, 0 TO 3 PERCENT SLOPES - The Blendon series consists of deep, well drained soils formed in sandy glacial sediments or eolian sediments on terraces and alluvial fans. Permeability is moderate or moderately rapid through the solum and moderately rapid or rapid in the underlying material. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.  
BnA BLENDON-FIRESTEEL COMPLEX, 0 TO 3 PERCENT SLOPES - The Firesteel series consists of somewhat poorly drained soils formed in calcareous silty sediments overlying soft siltstone on uplands. These soils have moderate permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

BoA - Bon Loam, 0 To 2 Percent Slopes

BoA BON LOAM, 0 TO 2 PERCENT SLOPES - The Bon series consists of deep, well drained and moderately well drained soils formed in alluvium on bottom lands of the glacial till plain. Permeability is moderate. This soil has high available water capacity and high organic matter content. Flooding is OCCAS.

Ca - Clamo Silty Clay Loam

Ca CLAMO SILTY CLAY LOAM - The Clamo series consists of deep, somewhat poorly drained, poorly drained, and very poorly drained soils formed in clayey alluvium on bottom lands. Permeability is slow. This soil has high available water capacity and high organic matter content. Flooding is OCCAS.

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Cc - Clamo Silty Clay Loam, Frequently Flooded

Cc CLAMO SILTY CLAY LOAM, FREQUENTLY FLOODED - The Clamo series consists of deep, somewhat poorly drained, poorly drained, and very poorly drained soils formed in clayey alluvium on bottom lands. Permeability is slow. This soil has high available water capacity and moderate organic matter content. Flooding is FREQ. Ponding duration is LONG.

CeB - Clarno-Ethan Loams, 3 To 6 Percent Slopes

CeB CLARNO-ETHAN LOAMS, 3 TO 6 PERCENT SLOPES - The Ethan series consists of deep, well drained soils formed in glacial till. They have moderate permeability in the solum and moderately slow permeability in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

CeB CLARNO-ETHAN LOAMS, 3 TO 6 PERCENT SLOPES - The Clarno series consists of deep, well drained or moderately well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

CeC - Clarno-Ethan Loams, 6 To 9 Percent Slopes

CeC CLARNO-ETHAN LOAMS, 6 TO 9 PERCENT SLOPES - The Clarno series consists of deep, well drained or moderately well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

CeC CLARNO-ETHAN LOAMS, 6 TO 9 PERCENT SLOPES - The Ethan series consists of deep, well drained soils formed in glacial till. They have moderate permeability in the solum and moderately slow permeability in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

ChA - Clarno-Houdek Loams, 0 To 3 Percent Slopes

ChA CLARNO-HOUDEK LOAMS, 0 TO 3 PERCENT SLOPES - The Clarno series consists of deep, well drained or moderately well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

ChA CLARNO-HOUDEK LOAMS, 0 TO 3 PERCENT SLOPES - The Houdek series consists of deep, well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

ChB - Clarno-Houdek Loams, 3 To 6 Percent Slopes

ChB CLARNO-HOUDEK LOAMS, 3 TO 6 PERCENT SLOPES - The Houdek series consists of deep, well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

ChB CLARNO-HOUDEK LOAMS, 3 TO 6 PERCENT SLOPES - The Clarno series consists of deep, well drained or moderately well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

DhA - Davison-Hand Loams, 0 To 2 Percent Slopes

DhA DAVISON-HAND LOAMS, 0 TO 2 PERCENT SLOPES - The Davison series consists of deep, moderately well drained soils formed in stratified glacial meltwater sediments or glacial till on uplands. Permeability is moderate in the solum and moderate or moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

DhA DAVISON-HAND LOAMS, 0 TO 2 PERCENT SLOPES - The Hand series consists of deep, well drained soils formed in stratified loamy glacial meltwater sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

DmB - Delmont Loam, 3 To 6 Percent Slopes

DmB DELMONT LOAM, 3 TO 6 PERCENT SLOPES - The Delmont series consists of very deep, somewhat excessively drained soils formed in loamy alluvium over sand and gravel on outwash plains and terraces. Permeability is moderately rapid or moderate in the solum and rapid in the underlying sand and gravel. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

EnA - Enet Loam, 0 To 3 Percent Slopes

EnA ENET LOAM, 0 TO 3 PERCENT SLOPES - The Enet series consists of deep, well drained soils formed in loamy sediments and the underlying stratified sand and gravel on the glacial outwash plain. Permeability is moderate in the solum and rapid in the underlying sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

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EoA - Enet-Delmont Loams, 0 To 3 Percent Slopes

EoA ENET-DELMONT LOAMS, 0 TO 3 PERCENT SLOPES - The Enet series consists of deep, well drained soils formed in loamy sediments and the underlying stratified sand and gravel on the glacial outwash plain. Permeability is moderate in the solum and rapid in the underlying sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.  
EoA ENET-DELMONT LOAMS, 0 TO 3 PERCENT SLOPES - The Delmont series consists of very deep, somewhat excessively drained soils formed in loamy alluvium over sand and gravel on outwash plains and terraces. Permeability is moderately rapid or moderate in the solum and rapid in the underlying sand and gravel. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

EoB - Enet-Delmont Loams, 3 To 6 Percent Slopes

EoB ENET-DELMONT LOAMS, 3 TO 6 PERCENT SLOPES - The Delmont series consists of very deep, somewhat excessively drained soils formed in loamy alluvium over sand and gravel on outwash plains and terraces. Permeability is moderately rapid or moderate in the solum and rapid in the underlying sand and gravel. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.  
EoB ENET-DELMONT LOAMS, 3 TO 6 PERCENT SLOPES - The Enet series consists of deep, well drained soils formed in loamy sediments and the underlying stratified sand and gravel on the glacial outwash plain. Permeability is moderate in the solum and rapid in the underlying sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Esa - Dimo-Storla Loams, 0 To 2 Percent Slopes

Esa DIMO-STORLA LOAMS, 0 TO 2 PERCENT SLOPES - The Storla series consists of deep, moderately well drained or somewhat poorly drained soils formed in loamy glacio-alluvial sediments overlying sand and gravel. These soils are on upland drainageways and terraces. Permeability is moderate in the solum and moderately rapid or rapid in the sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.  
Esa DIMO-STORLA LOAMS, 0 TO 2 PERCENT SLOPES - The Dimo series consists of very deep, somewhat poorly drained soils formed in loamy alluvium and the underlying sand and gravel. Permeability is moderate in the solum and rapid in the sand and gravel. This soil has moderate available water capacity and high organic matter content. Flooding is OCCAS.

Etc2 - Ethan-Betts Loams, 5 To 9 Percent Slopes, Eroded

Etc2 ETHAN-BETTS LOAMS, 5 TO 9 PERCENT SLOPES, ERODED - The Ethan series consists of deep, well drained soils formed in glacial till. They have moderate permeability in the solum and moderately slow permeability in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
Etc2 ETHAN-BETTS LOAMS, 5 TO 9 PERCENT SLOPES, ERODED - The Betts series consists of very deep, well drained soils formed in glacial till. Permeability is moderate in the upper part and moderately slow in the underlying glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

Fea - Fedora Sandy Loam, 0 To 3 Percent Slopes

Fea FEDORA SANDY LOAM, 0 TO 3 PERCENT SLOPES - The Fedora series consist of deep, poorly drained soils formed in sandy glacial outwash materials on the glacial meltwater plains. Permeability is moderately rapid in the upper part and rapid in the underlying sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

Fsa - Firesteel Silt Loam, 0 To 2 Percent Slopes

Fsa FIRESTEEL SILT LOAM, 0 TO 2 PERCENT SLOPES - The Firesteel series consists of somewhat poorly drained soils formed in calcareous silty sediments overlying soft siltstone on uplands. These soils have moderate permeability. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

GRAV - Pits, Gravel

GRAV GRAVEL PITS - Orthents, gravelly consists of areas where gravel has been excavated and removed. Some areas have been smoothed and 8 to 14 inches of loamy overburden has been replaced. This soil has low available water capacity and organic matter content. Flooding is NONE.

HaB - Hand Loam, 3 To 6 Percent Slopes

HaB HAND LOAM, 3 TO 6 PERCENT SLOPES - The Hand series consists of deep, well drained soils formed in stratified loamy glacial meltwater sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

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HdA - Hand-Davison Loams, 0 To 3 Percent Slopes

HdA HAND-DAVISON LOAMS, 0 TO 3 PERCENT SLOPES - The Davison series consists of deep, moderately well drained soils formed in stratified glacial meltwater sediments or glacial till on uplands. Permeability is moderate in the solum and moderate or moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HdA HAND-DAVISON LOAMS, 0 TO 3 PERCENT SLOPES - The Hand series consists of deep, well drained soils formed in stratified loamy glacial meltwater sediments on uplands. Permeability is moderate. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HkA - Houdek-Prosper Loams, 0 To 2 Percent Slopes

HkA HOUDEK-PROSPER LOAMS, 0 TO 2 PERCENT SLOPES - The Houdek series consists of deep, well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HkA HOUDEK-PROSPER LOAMS, 0 TO 2 PERCENT SLOPES - The Prosper series consists of very deep, moderately well drained soil formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and high organic matter content. Flooding is NONE.

HpA - Houdek, Prosper, And Stickney Loams, 0 To 1 Percent Slopes

HpA HOUDEK, PROSPER, AND STICKNEY LOAMS, 0 TO 1 PERCENT SLOPES - The Houdek series consists of deep, well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HpA HOUDEK, PROSPER, AND STICKNEY LOAMS, 0 TO 1 PERCENT SLOPES - The Prosper series consists of very deep, moderately well drained soil formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and high organic matter content. Flooding is NONE.

HpA HOUDEK, PROSPER, AND STICKNEY LOAMS, 0 TO 1 PERCENT SLOPES - The Stickney series consists of very deep, moderately well drained, slowly permeable soils formed in glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HsA - Houdek-Stickney Loams, 0 To 2 Percent Slopes

HsA HOUDEK-STICKNEY LOAMS, 0 TO 2 PERCENT SLOPES - The Stickney series consists of very deep, moderately well drained, slowly permeable soils formed in glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

HsA HOUDEK-STICKNEY LOAMS, 0 TO 2 PERCENT SLOPES - The Houdek series consists of deep, well drained soils formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

La - Lamo Silt Loam

La LAMO SILT LOAM - The Lamo series consists of very deep, somewhat poorly drained and poorly drained soils that formed in calcareous alluvium. The soils have moderately slow permeability. These soils are on bottom lands. This soil has very high available water capacity and moderate organic matter content. Flooding is OCCAS.

LpA - Lamo And Prosper Soils, 0 To 3 Percent Slopes

LpA LAMO AND PROSPER SOILS, 0 TO 3 PERCENT SLOPES - The Lamo series consists of very deep, somewhat poorly drained and poorly drained soils that formed in calcareous alluvium. The soils have moderately slow permeability. These soils are on bottom lands. This soil has very high available water capacity and moderate organic matter content. Flooding is OCCAS.

LpA LAMO AND PROSPER SOILS, 0 TO 3 PERCENT SLOPES - The Prosper series consists of very deep, moderately well drained soil formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and high organic matter content. Flooding is NONE.

PrA - Prosper Silt Loam, 0 To 3 Percent Slopes

PrA PROSPER SILT LOAM, 0 TO 3 PERCENT SLOPES - The Prosper series consists of very deep, moderately well drained soil formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and high organic matter content. Flooding is NONE.

PrB - Prosper Silt Loam, 3 To 6 Percent Slopes

PrB PROSPER SILT LOAM, 3 TO 6 PERCENT SLOPES - The Prosper series consists of very deep, moderately well drained soil formed in glacial till on uplands. Permeability is moderate in the solum and moderately slow in the underlying material. This soil has high available water capacity and high organic matter content. Flooding is NONE.

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ReA - Redstoe Loam, 0 To 3 Percent Slopes

ReA REDSTOE LOAM, 0 TO 3 PERCENT SLOPES - The Redstoe series consists of moderately deep, well drained soils formed in residuum weathered from chalky siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

ReC - Redstoe Loam, 3 To 9 Percent Slopes

ReC REDSTOE LOAM, 3 TO 9 PERCENT SLOPES - The Redstoe series consists of moderately deep, well drained soils formed in residuum weathered from chalky siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

ReD - Redstoe Loam, 9 To 21 Percent Slopes

ReD REDSTOE LOAM, 9 TO 21 PERCENT SLOPES - The Redstoe series consists of moderately deep, well drained soils formed in residuum weathered from chalky siltstone on uplands. Permeability is moderate. This soil has low available water capacity and moderate organic matter content. Flooding is NONE.

Sa - Salmo Silt Loam

Sa SALMO SILT LOAM - The Salmo series consists of very deep, somewhat poorly drained and poorly drained soils formed in silty alluvium on bottom lands. Permeability is moderate or moderately slow in the solum and moderately slow or slow in the underlying material. This soil has high available water capacity and moderate organic matter content. Flooding is FREQ.

SdA - Stickney-Dudley Complex, 0 To 2 Percent Slopes

SdA STICKNEY-DUDLEY COMPLEX, 0 TO 2 PERCENT SLOPES - The Stickney series consists of very deep, moderately well drained, slowly permeable soils formed in glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
SdA STICKNEY-DUDLEY COMPLEX, 0 TO 2 PERCENT SLOPES - The Dudley series consists of deep, moderately well and somewhat poorly drained soils formed in glacial till on uplands. Permeability is slow or very slow. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.

SoA - Storla Loam, 0 To 2 Percent Slopes

SoA STORLA LOAM, 0 TO 2 PERCENT SLOPES - The Storla series consists of deep, moderately well drained or somewhat poorly drained soils formed in loamy glacio-alluvial sediments overlying sand and gravel. These soils are on upland drainageways and terraces. Permeability is moderate in the solum and moderately rapid or rapid in the sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is NONE.

StA - Arlo-Durrstein Complex, 0 To 2 Percent Slopes

StA ARLO-DURRSTEIN COMPLEX, 0 TO 2 PERCENT SLOPES - The Arlo series consists of deep, somewhat poorly drained, poorly drained and very poorly drained soils formed in loamy alluvium overlying stratified sand and gravel on glacial outwash plains. Permeability is moderate in the solum and rapid in the underlying sand and gravel. This soil has moderate available water capacity and moderate organic matter content. Flooding is OCCAS.  
StA ARLO-DURRSTEIN COMPLEX, 0 TO 2 PERCENT SLOPES - The Durrstein series consists of very deep, poorly drained soils formed in clayey alluvium on flood plains and broad flats. These soils have very slow or slow permeability. This soil has moderate available water capacity and moderate organic matter content. Flooding is OCCAS.

TeA - Tetonka Silt Loam, 0 To 2 Percent Slopes

TeA TETONKA SILT LOAM, 0 TO 2 PERCENT SLOPES - The Tetonka series consists of deep, poorly drained soils formed in local alluvium in depressions on uplands. Permeability is very slow or slow. This soil has high available water capacity and high organic matter content. Flooding is NONE. Ponding duration is LONG.

TsA - Tetonka-Stickney Complex, 0 To 3 Percent Slopes

TsA TETONKA-STICKNEY COMPLEX, 0 TO 3 PERCENT SLOPES - The Stickney series consists of very deep, moderately well drained, slowly permeable soils formed in glacial till. This soil has high available water capacity and moderate organic matter content. Flooding is NONE.  
TsA TETONKA-STICKNEY COMPLEX, 0 TO 3 PERCENT SLOPES - The Tetonka series consists of deep, poorly drained soils formed in local alluvium in depressions on uplands. Permeability is very slow or slow. This soil has high available water capacity and high organic matter content. Flooding is NONE. Ponding duration is LONG.

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Non Technical Soil Descriptions--Continued

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W - Water

w WATER - These are areas of water that are normally less than 40 acres in size. This soil has available water capacity and organic matter content.

Wo - Worthing Silty Clay Loam

Wo WORTHING SILTY CLAY LOAM - The Worthing series consists of deep, poorly and very poorly drained soils formed in clayey alluvial sediments in upland depressions. Permeability is slow. This soil has high available water capacity and moderate organic matter content. Flooding is NONE. Ponding duration is VERY LONG.

Wp - Worthing Silty Clay Loam, Ponded

Wp WORTHING SILTY CLAY LOAM, PONDED - The Worthing series consists of deep, poorly and very poorly drained soils formed in clayey alluvial sediments in upland depressions. Permeability is slow. This soil has high available water capacity and moderate organic matter content. Flooding is NONE. Ponding duration is VERY LONG.

